

# Patent Abstracts of Japan

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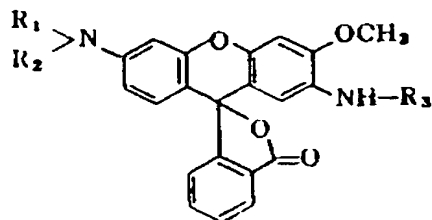
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APPLICANT : HODOGAYA CHEM CO LTD;

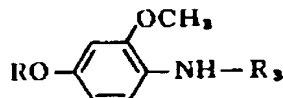
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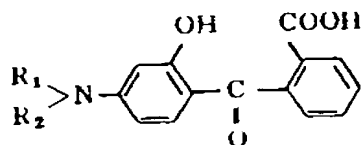
TITLE : FLUORANE COMPOUND



I



II



III

ABSTRACT : NEW MATERIAL: The 2-substituted-amino-3-methoxy-6-disubstituted amino-fluorane compound of formula I [ $R_1$  and  $R_2$  are lower alkyl, cycloalkyl, aryl or  $R_1$  and  $R_2$  together with N form saturated ring;  $R_3$  is (substituted) benzyl or (substituted) phenyl].

EXAMPLE: 2-Benzylamino-3-methoxy-6-diethylaminofluorane.

USE: A dye precursor for heat-sensitive recording paper, electrical heat-sensitive recording paper, etc.

PROCESS: The objective compound can be prepared, e.g. by reacting the aniline derivative of formula II ( $R$  is H or lower alkyl) (e.g. N-benzyl-2,4-dimethoxyaniline) with the benzophenone compound of formula III (e.g. 2-hydroxy-4-dimethylamino-2'-carboxy-benzophenone) in the presence of concentrated sulfuric acid at 0-80°C, throwing the reaction mixture in water, and adjusting the pH of the mixture to 8-10 with NaOH to precipitate the objective compound.